

# Dry, Condensed, and Evaporated Dairy Product Manufacturing: 2002

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## 2002 Economic Census

*Manufacturing*

Industry Series



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U.S. Department of Commerce  
Economics and Statistics Administration  
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-- Not applicable for this report.

**Table 1. Historical Statistics for the Industry: 2002 and Earlier Years**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year <sup>1</sup>	Com- panies <sup>2</sup>	All estab- lish- ments <sup>3</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)	
			Number <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)					
311514, Dry, condensed, and evaporated dairy product manufacturing .....	2002...	160	214	14 126	608 510	9 754	21 078	381 536	4 262 622	5 244 110	9 526 002	'348 447
	2001...	N	N	14 991	605 371	10 209	22 802	353 431	4 157 299	5 933 783	10 070 108	253 974
	2000...	N	N	17 240	681 810	10 699	23 024	350 839	4 215 043	5 469 481	9 615 591	340 307
	1999...	N	N	16 329	644 951	10 573	22 004	316 669	4 018 426	5 061 379	9 042 309	220 501
	1998...	N	N	16 925	609 160	10 694	23 186	319 356	4 240 928	4 956 213	9 121 869	384 919
	1997...	169	215	16 074	573 495	10 189	22 164	310 584	4 168 556	5 037 140	9 217 542	269 050

<sup>1</sup>Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

<sup>2</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>3</sup>Includes establishments with payroll at any time during the year.

<sup>4</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 2. Industry Statistics for Selected States: 2002**

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
311514, Dry, condensed, and evaporated dairy product manufacturing												
United States .....	—	214	119	14 126	608 510	9 754	21 078	381 536	4 262 622	5 244 110	9 526 002	'348 447
Illinois .....	—	11	7	676	28 590	482	1 025	18 652	87 172	269 206	357 196	'9 518
Michigan .....	—	10	9	1 324	63 283	941	2 096	43 138	1 014 439	487 791	1 489 500	25 375
New Jersey .....	—	9	3	211	13 620	130	299	6 165	37 307	98 682	137 438	'9 549
Texas .....	—	7	4	287	8 518	220	503	5 511	18 644	157 467	175 782	'1 715
Wisconsin .....	—	28	18	2 040	79 066	1 351	2 939	50 236	343 587	494 136	834 752	'23 060

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 3. Detailed Statistics by Industry: 2002**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
<b>311514, Dry, condensed, and evaporated dairy product manufacturing</b>	
Companies <sup>1</sup> .....	number.. 160
All establishments <sup>2</sup> .....	number.. 214
Establishments with 1 to 19 employees .....	number.. 95
Establishments with 20 to 99 employees .....	number.. 82
Establishments with 100 employees or more .....	number.. 37
All employees <sup>3</sup> .....	number.. 14 126
Total compensation .....	\$1,000.. 814 956
Annual payroll .....	\$1,000.. 608 510
Total fringe benefits .....	\$1,000.. 206 446
Production workers, average for year .....	number.. 9 754
Production workers on March 12 .....	number.. 9 697
Production workers on May 12 .....	number.. 9 745
Production workers on August 12 .....	number.. 9 923
Production workers on November 12 .....	number.. 9 599
Production worker hours .....	1,000.. 21 078
Production worker wages .....	\$1,000.. 381 536
Total cost of materials .....	\$1,000.. 5 244 110
Materials, parts, containers, packaging, etc., used .....	\$1,000.. 4 847 134
Resales .....	\$1,000.. 219 469
Purchased fuels .....	\$1,000.. 82 894
Purchased electricity .....	\$1,000.. 68 180
Contract work .....	\$1,000.. 26 433
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 1 212 418
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. -
Total value of shipments .....	\$1,000.. 9 526 002
Primary products value of shipments .....	\$1,000.. 7 705 697
Secondary products value of shipments .....	\$1,000.. 1 507 412
Total miscellaneous receipts .....	\$1,000.. 312 893
Value of resales .....	\$1,000.. 289 573
Contract receipts .....	\$1,000.. 21 625
Other miscellaneous receipts .....	\$1,000.. 1 695
Primary products specialization ratio .....	percent.. 84
Value of primary products shipments made in all industries .....	\$1,000.. 9 832 115
Value of primary products shipments made in this industry .....	\$1,000.. 7 705 697
Value of primary products shipments made in other industries .....	\$1,000.. 2 126 418
Coverage ratio .....	percent.. 78
Value added .....	\$1,000.. 4 262 622
Total inventories, beginning of year .....	\$1,000.. 680 827
Finished goods inventories .....	\$1,000.. 429 116
Work-in-process inventories .....	\$1,000.. 41 568
Materials and supplies inventories .....	\$1,000.. 210 143
Total inventories, end of year .....	\$1,000.. 642 625
Finished goods inventories .....	\$1,000.. 412 116
Work-in-process inventories .....	\$1,000.. 39 298
Materials and supplies inventories .....	\$1,000.. 191 211
Gross value of depreciable assets (acquisition costs) at beginning of year .....	\$1,000.. '3 304 951
Total capital expenditures (new and used) .....	\$1,000.. '348 447
Buildings and other structures (new and used) .....	\$1,000.. '81 055
Machinery and equipment (new and used) .....	\$1,000.. '267 392
Automobiles, trucks, etc., for highway use .....	\$1,000.. '12 931
Computers and peripheral data processing equipment .....	\$1,000.. '16 165
All other expenditures for machinery and equipment .....	\$1,000.. '238 296
Total retirements .....	\$1,000.. '77 289
Gross value of depreciable assets at end of year .....	\$1,000.. '3 576 109
Depreciation charges during year .....	\$1,000.. '197 479
Total rental payments .....	\$1,000.. 47 498
Buildings and other structures .....	\$1,000.. 28 119
Machinery and equipment .....	\$1,000.. 19 379
Total other expenses <sup>4</sup> .....	\$1,000.. 347 084
Response coverage ratio <sup>5</sup> .....	percent.. 83
Repair and maintenance services of buildings and/or machinery <sup>4</sup> .....	\$1,000.. 56 505
Communications services <sup>4</sup> .....	\$1,000.. 6 025
Legal services <sup>4</sup> .....	\$1,000.. 7 179
Accounting, auditing, and bookkeeping services <sup>4</sup> .....	\$1,000.. 1 338
Advertising and promotional services <sup>4</sup> .....	\$1,000.. 8 793
Expensed computer hardware and supplies and purchased computer services <sup>4</sup> .....	\$1,000.. 2 903
Refuse removal (including hazardous waste) services <sup>4</sup> .....	\$1,000.. 15 776
Management consulting and administrative services <sup>4</sup> .....	\$1,000.. 8 835
Taxes and license fees <sup>4</sup> .....	\$1,000.. 14 806
All other expenses <sup>4</sup> .....	\$1,000.. 224 924

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Based on Annual Survey of Manufactures (ASM) sample data.

<sup>5</sup>A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 4. Industry Statistics by Employment Size: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E <sup>1</sup>	All establishments <sup>2</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
311514, Dry, condensed, and evaporated dairy product manufacturing											
All establishments .....	—	214	14 126	608 510	9 754	21 078	381 536	4 262 622	5 244 110	9 526 002	'348 447
Establishments with—											
1 to 4 employees .....	9	46	84	3 069	63	120	2 126	6 009	20 557	26 449	'747
5 to 9 employees .....	8	16	117	4 861	82	162	3 300	8 697	36 787	45 549	'846
10 to 19 employees .....	3	33	446	18 516	317	648	11 128	47 836	151 359	199 259	'7 094
20 to 49 employees .....	—	44	1 439	56 050	1 069	2 267	34 601	200 347	566 468	764 334	'10 427
50 to 99 employees .....	1	38	2 759	108 776	1 914	4 074	66 664	496 200	1 476 876	1 986 718	'54 284
100 to 249 employees .....	1	23	3 462	144 179	2 414	5 284	92 018	554 533	1 595 721	2 153 001	'82 757
250 to 499 employees .....	—	10	h	D	D	D	D	D	D	D	D
500 to 999 employees .....	—	4	g	D	D	D	D	D	D	D	D
1,000 to 2,499 employees .....	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more .....	—	—	—	—	—	—	—	—	—	—	—
Administrative records <sup>4</sup> .....	9	62	267	11 486	199	407	8 225	18 617	76 643	95 260	'2 070

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 5. Industry Statistics by Primary Product Class Specialization: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments <sup>1</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)				
311514	Dry, condensed, and evaporated dairy product manufacturing .....	214	14 126	608 510	9 754	21 078	381 536	4 262 622	5 244 110	9 526 002	'348 447
3115141	Dry milk products and mixtures .....	62	5 338	229 751	3 889	8 407	159 548	2 011 103	2 579 932	4 594 696	'86 086
3115145	Canned milk products (consumer-type cans), except substitutes .....	21	3 972	177 846	2 372	5 321	96 112	1 052 949	1 130 644	2 164 424	'80 028
3115147	Concentrated milk products shipped in bulk (barrels, drums, and tanks) .	10	557	24 690	324	701	11 936	85 241	321 907	405 970	'9 336
311514A	Ice cream mixes and related products .....	22	1 126	48 354	747	1 653	25 832	187 771	268 715	455 988	'20 756
311514D	Dairy product substitutes .....	21	2 583	105 865	2 008	4 156	72 766	884 149	821 069	1 741 846	'146 514

<sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 6a. Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
311514	Dry, condensed, and evaporated dairy product manufacturing .....	2002.. N	X	X	9 832 115
	1997.. N	X	X	X	8 570 999
3115141	Dry milk products and mixtures .....	2002.. N	X	X	4 220 585
	1997.. N	X	X	X	3 538 811
31151411	Dry milk, nonfat, shipped in consumer type packages (3 lb or less) .....	2002.. N	X	X	118 721
	1997.. N	X	X	X	100 569
3115141111	Dry milk, nonfat, shipped in consumer type packages (3 lb or less) .....	2002.. 9	X	S	118 721
	1997.. 7	X	X	X	100 569
31151412	Dry milk, infants' formula, shipped in consumer type packages (3 lb or less) .....	2002.. N	X	X	1 224 773
	1997.. N	X	X	X	646 386
3115141221	Dry milk, infants' formula, shipped in consumer type packages (3 lb or less) .....	2002.. 9	X	S	1 224 773
	1997.. 6	X	X	X	646 386
31151413	Dry milk, other types (instant chocolate milk, weight control products, whole milk powder, malted milk powder, etc.), shipped in consumer type packages (3 lb or less) .....	2002.. N	X	X	392 766
	1997.. N	X	X	X	405 374
3115141331	Dry milk, other types (instant chocolate milk, weight control products, whole milk powder, malted milk powder, etc.), shipped in consumer type packages (3 lb or less) .....	2002.. 15	X	S	392 766
	1997.. 12	X	X	X	405 374
31151414	Dry milk, whole, food grade (bakeries, confectioners, meat packers, etc.), shipped in bulk (more than 3 lb) .....	2002.. N	X	X	150 409
	1997.. N	X	X	X	132 495
3115141441	Dry milk, whole, food grade (bakeries, confectioners, meat packers, etc.), shipped in bulk (more than 3 lb) .....	2002.. 13	X	S	150 409
	1997.. 12	X	X	X	132 495
31151415	Dry milk, nonfat, food grade (bakeries, confectioners, meat packers, etc.), shipped in bulk (more than 3 lb) .....	2002.. N	X	X	1 317 582
	1997.. N	X	X	X	1 310 156
3115141551	Dry milk, nonfat, food grade (bakeries, confectioners, meat packers, etc.), shipped in bulk (more than 3 lb) .....	2002.. 24	X	¶1 445.0	1 317 582
	1997.. 34	X	X	¶1 211.4	1 310 156
31151416	Dry and modified dry whey products (including dry lactose), food grade (bakeries, confectioners, meat packers, etc.) shipped in bulk (more than 3 lb) .....	2002.. N	X	X	628 135
	1997.. N	X	X	X	572 844
3115141661	Dry whey, food grade (bakeries, confectioners, meat packers, etc.), shipped in bulk (more than 3 lb) .....	2002.. 24	X	S	304 627
	1997.. 37	X	X	¶1 127.6	284 206
3115141671	Modified dry whey products (whey protein concentrates, etc.), food grade (bakeries, confectioners, meat packers, etc.), shipped in bulk (more than 3 lb) .....	2002.. 19	X	¶617.4	243 408
	1997.. 24	X	X	¶398.3	212 865
3115141681	Dry lactose, food grade (bakeries, confectioners, meat packers, etc.), shipped in bulk (more than 3 lb) .....	2002.. 15	X	S	80 100
	1997.. 18	X	X	¶344.6	75 773
31151417	Dry milk products, other types, food grade, shipped in bulk (more than 3 lb) .....	2002.. N	X	X	268 268
	1997.. N	X	X	X	300 789
3115141791	Dry milk products, other types, food grade, shipped in bulk (more than 3 lb) .....	2002.. 27	X	S	268 268
	1997.. 30	X	X	¶231.3	300 789
31151418	Dry milk products and mixtures (dry milk, dry buttermilk, dry whey, etc.), feed grade, shipped in bulk (more than 3 lb) .....	2002.. N	X	X	74 255
	1997.. N	X	X	X	61 537
31151418A1	Dry milk products and mixtures (dry milk, dry buttermilk, dry whey, etc.), feed grade, shipped in bulk (more than 3 lb) .....	2002.. 16	X	S	74 255
	1997.. 26	X	X	116.0	61 537
3115141Y	Dry milk products and mixtures, nsk .....	2002.. N	X	X	45 676
	1997.. N	X	X	X	8 661
3115141YWV	Dry milk products and mixtures, nsk .....	2002.. N	X	X	45 676
	1997.. N	X	X	X	8 661
3115145	Canned milk products (consumer-type cans), except substitutes .....	2002.. N	X	X	2 117 680
	1997.. N	X	X	X	N
31151451	Canned evaporated milk, condensed milk, and milk-based dietary supplements and weight control products (consumer-type cans), except substitutes .....	2002.. N	X	X	D
	1997.. N	X	X	X	N
3115145111	Canned evaporated milk (consumer-type cans), except substitutes .....	2002.. 7	X	S	248 867
	1997.. N	X	X	N	N
3115145121	Canned condensed milk (consumer-type cans), except substitutes .....	2002.. 6	X	D	D
	1997.. N	X	X	N	N
3115145131	Canned milk-based dietary supplements, weight control products (consumer-type cans), except substitutes .....	2002.. 7	X	S	494 643
	1997.. N	X	X	N	N
31151452	Canned milk-based infants' formula, liquid (consumer-type cans), except substitutes .....	2002.. N	X	X	625 857
	1997.. N	X	X	X	N
3115145241	Canned milk-based infants' formula, liquid (consumer-type cans), except substitutes .....	2002.. 7	X	S	625 857
	1997.. N	X	X	N	N
31151453	Other canned milk products, including canned whole milk (consumer-type cans), except substitutes .....	2002.. N	X	X	D
	1997.. N	X	X	X	N
3115145351	Other canned milk products, including canned whole milk (consumer-type cans), except substitutes .....	2002.. 3	X	D	D
	1997.. N	X	X	N	N
31151454	U.H.T. fluid milk .....	2002.. N	X	X	425 970
	1997.. N	X	X	X	N
3115145441	U.H.T. fluid whole milk .....	2002.. 15	X	S	129 627
	1997.. N	X	X	N	N
3115145442	U.H.T. lowfat milk, packaged .....	2002.. 15	X	S	216 922
	1997.. N	X	X	N	N

See footnotes at end of table.



Table 6a. **Products Statistics: 2002 and 1997—Con.**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
311514	Dry, condensed, and evaporated dairy product manufacturing—Con.				
3115145	Canned milk products (consumer-type cans), except substitutes—Con.				
31151454	U.H.T. fluid milk—Con.				
3115145443	U.H.T. skim milk, packaged .....	12	X	S	79 421
	1997..	N	X	N	N
3115145Y	Canned milk products (consumer-type cans), except substitutes, nsk .....	N	X	X	—
	2002..	N	X	X	N
	1997..	N	X	X	N
3115145YVV	Canned milk products (consumer-type cans), except substitutes, nsk .....	N	X	X	—
	2002..	N	X	X	N
	1997..	N	X	X	N
3115147	Concentrated milk products shipped in bulk (barrels, drums, and tanks) .....	N	X	X	558 277
	2002..	N	X	X	747 841
	1997..	N	X	X	747 841
311514711	Concentrated milk products shipped in bulk (barrels, drums, and tanks), feed grade, including concentrated whey and buttermilk .....	9	X	S	57 673
	mil qt. 2002..	9	X	S	40 962
	1997..	9	X	S	40 962
3115147121	Concentrated whey (in terms of solids) shipped in bulk (barrels, drums, and tanks), food grade (except all types of ice cream mixes) .....	15	X	S	135 904
	mil lb. 2002..	28	X	¶1 438.7	137 706
	1997..	28	X	X	137 706
3115147131	All other concentrated milk products shipped in bulk (drums, barrels, and tanks), food grade (except ice cream and ice cream mixes) .....	23	X	P633.7	352 779
	mil lb. 2002..	29	X	1 339.6	569 173
	1997..	29	X	X	569 173
3115147Y	Concentrated milk products shipped in bulk (barrels, drums, and tanks), nsk .....	N	X	X	11 921
	2002..	N	X	X	—
	1997..	N	X	X	—
3115147YVV	Concentrated milk products shipped in bulk (barrels, drums, and tanks), nsk .....	N	X	X	11 921
	2002..	N	X	X	—
	1997..	N	X	X	—
311514A	Ice cream mixes and related products .....	N	X	X	935 439
	2002..	N	X	X	876 668
	1997..	N	X	X	631 121
311514A1	All ice cream mixes .....	N	X	X	589 050
	2002..	N	X	X	443 721
	1997..	N	X	X	441 970
311514A111	Ice cream mix, excluding lowfat and nonfat .....	68	X	¶127.3	160 882
	mil gal. 2002..	97	X	X	142 111
	1997..	37	X	X	26 518
311514A121	Lowfat ice cream mix .....	54	X	¶47.8	4 969
	mil gal. 2002..	9	X	X	304 153
	1997..	8	X	X	285 920
311514A131	Nonfat ice cream mix .....	N	X	X	6 157
	2002..	N	X	X	14 969
	1997..	N	X	X	134 685
311514A2	Sherbet, yogurt, milkshake, and other milk-based mixes .....	N	X	X	51 679
	2002..	N	X	X	103 272
	1997..	N	X	X	119 786
311514A241	Sherbet mix .....	6	X	X	60 039
	mil gal. 2002..	14	X	X	99 486
	1997..	22	X	X	165
311514A251	Yogurt mix .....	39	X	X	1 698
	mil gal. 2002..	27	X	X	165
	1997..	45	X	X	1 698
311514A261	Milkshake mix .....	25	X	X	1 698
	mil gal. 2002..	31	X	X	1 698
	1997..	N	X	X	1 698
311514A271	Other milk-based mixes .....	N	X	X	1 698
	mil gal. 2002..	N	X	X	1 698
	1997..	N	X	X	1 698
311514AY	Ice cream mixes and related products, nsk .....	N	X	X	1 698
	2002..	N	X	X	1 698
	1997..	N	X	X	1 698
311514AYVV	Ice cream mixes and related products, nsk .....	N	X	X	1 698
	2002..	N	X	X	1 698
	1997..	N	X	X	1 698
311514D	Dairy product substitutes .....	N	X	X	1 890 117
	2002..	N	X	X	1 899 881
	1997..	N	X	X	1 869 713
311514D1	Dairy product substitutes .....	N	X	X	1 896 324
	2002..	N	X	X	514 613
	1997..	N	X	X	346 163
311514D111	Dry coffee whitener dairy substitutes .....	10	X	¶612.0	D
	mil lb. 2002..	19	X	515.4	D
	1997..	4	X	D	D
311514D121	Dry infants' formula dairy substitutes .....	4	X	D	D
	mil lb. 2002..	4	X	D	D
	1997..	4	X	D	D
311514D131	Dry sour cream dairy substitutes .....	4	X	S	13 431
	mil lb. 2002..	2	X	D	D
	1997..	2	X	D	D
311514D141	Other dry dairy substitutes, including whipped topping, etc. ....	6	X	X	19 299
	2002..	15	X	X	76 278
	1997..	5	X	D	D
311514D151	Canned liquid infants' formula dairy substitutes .....	5	X	D	D
	mil lb. 2002..	2	X	D	D
	1997..	2	X	D	D
311514D161	Other canned dairy product substitutes, including dietary supplements and weight control products .....	21	X	S	546 895
	mil lb. 2002..	23	X	P814.9	1 195 726
	1997..	N	X	X	20 404
311514DY	Dairy product substitutes, nsk .....	N	X	X	3 557
	2002..	N	X	X	20 404
	1997..	N	X	X	3 557
311514DYVV	Dairy product substitutes, nsk .....	N	X	X	3 557
	2002..	N	X	X	3 557
	1997..	N	X	X	3 557
311514W	Dry, condensed, and evaporated dairy product manufacturing, nsk, total .....	N	X	X	110 017
	2002..	N	X	X	81 272
	1997..	N	X	X	81 272
311514WY	Dry, condensed, and evaporated dairy product manufacturing, nsk, total .....	N	X	X	110 017
	2002..	N	X	X	81 272
	1997..	N	X	X	81 272
311514WYVV	Dry, condensed, and evaporated dairy product manufacturing, nsk, for nonadministrative-record establishments .....	N	X	X	15 916
	2002..	N	X	X	48 921
	1997..	N	X	X	48 921
311514WYVY	Dry, condensed, and evaporated dairy product manufacturing, nsk, for administrative-record establishments .....	N	X	X	94 101
	2002..	N	X	X	32 351
	1997..	N	X	X	32 351

See footnotes at end of table.

Table 6a. **Products Statistics: 2002 and 1997—Con.**

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 6b. Product Class Shipments for Selected States: 2002 and 1997**

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3115141	Dry milk products and mixtures	
	United States..... 2002..	4 220 585
	..... 1997..	3 538 811
	Michigan..... 2002..	999 758
	..... 1997..	499 327
	New Jersey..... 2002..	47 186
	..... 1997..	N
	Wisconsin..... 2002..	471 762
	..... 1997..	473 036
3115145	Canned milk products (consumer-type cans), except substitutes	
	United States..... 2002..	2 117 680
	..... 1997..	N
3115147	Concentrated milk products shipped in bulk (barrels, drums, and tanks)	
	United States..... 2002..	558 277
	..... 1997..	747 841
	Wisconsin..... 2002..	165 279
	..... 1997..	144 561
311514A	Ice cream mixes and related products	
	United States..... 2002..	935 439
	..... 1997..	876 668
	Michigan..... 2002..	30 753
	..... 1997..	44 266
	New Jersey..... 2002..	102 807
	..... 1997..	33 463
	Texas..... 2002..	87 846
	..... 1997..	58 909
	Wisconsin..... 2002..	35 031
	..... 1997..	N
311514D	Dairy product substitutes	
	United States..... 2002..	1 890 117
	..... 1997..	1 899 881
	Michigan..... 2002..	283 475
	..... 1997..	N
	Wisconsin..... 2002..	161 807
	..... 1997..	73 603

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 7. Materials Consumed by Kind: 2002 and 1997**

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
311514	Dry, condensed, and evaporated dairy product manufacturing		
00900001	Total materials .....2002..	X	4 847 134
	.....1997..	X	4 762 474
11212000	Whole milk ..... mil cwt ..2002..	S	1 971 476
	.....1997..	148.2	1 982 391
31151101	Fluid skim milk ..... mil cwt ..2002..	S	13 857
	.....1997..	S	17 992
31151103	Cream ..... mil cwt ..2002..	q2.3	152 836
	.....1997..	q3.0	141 379
31151200	Butter ..... mil lb ..2002..	S	79 980
	.....1997..	S	98 523
31151401	Condensed and evaporated milk ..... mil lb ..2002..	S	92 099
	.....1997..	p220.0	144 889
31151407	Dry milk ..... mil lb ..2002..	295.5	D
	.....1997..	324.5	278 401
31151301	Natural cheese (excluding cottage cheese) ..... mil lb ..2002..	D	D
	.....1997..	221.6	107 353
31100019	Fats and oils, all types, purchased ..... mil lb ..2002..	q367.0	105 377
	.....1997..	q243.5	90 857
31122103	High fructose corn syrup (HFCS) (solids) ..... mil lb ..2002..	q517.1	57 255
	.....1997..	q309.8	43 822
31122117	Crystalline fructose (dry fructose) ..... mil lb ..2002..	S	9 100
	.....1997..	p29.0	8 069
31122119	Dextrose and corn syrup, including corn syrup solids (dry weight) ..... mil lb ..2002..	q306.7	45 812
	.....1997..	p268.2	43 011
31131001	Sugar, cane and beet (sugar solids) ..... 1,000 s tons ..2002..	152.5	67 799
	.....1997..	N	N
31151403	Whey (liquid, concentrated, and dried) and modified whey products ..... mil lb ..2002..	q530.5	141 698
	.....1997..	1 404.0	113 898
00190035	Casein and caseinates ..... mil lb ..2002..	p103.3	210 190
	.....1997..	p125.1	244 355
31132001	Chocolate (compounds, cocoa, chocolate liquor, coatings, chocolate flavoring, etc.) ..... mil lb ..2002..	23.5	21 446
	.....1997..	24.6	16 500
00190036	Flavorings (natural, imitation, etc.), excluding chocolate .....2002..	X	74 449
	.....1997..	X	57 953
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	8 691
	.....1997..	X	7 189
001900A1	Packaging paper and plastics film, coated and laminated .....2002..	X	57 923
	.....1997..	X	58 473
001900A3	Bags (plastics, foil, and coated paper) .....2002..	X	38 317
	.....1997..	X	36 090
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	29 697
	.....1997..	X	18 511
32721301	Glass containers .....2002..	X	23 268
	.....1997..	X	24 675
32610028	Plastics containers (excluding bags) .....2002..	X	53 975
	.....1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	142 355
	.....1997..	X	90 163
33243101	Metal cans, lids, and ends .....2002..	X	164 840
	.....1997..	X	172 190
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	667 192
	.....1997..	X	807 144
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	199 997
	.....1997..	X	158 646

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.